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**TITLE : CONTROL DEVICE FOR  
PROPORTIONAL CURRENT CONTROL  
TYPE DC MOTOR**

**ABSTRACT :** PURPOSE:To suppress the ripple component for a power source by superposing the ripple component of the power source inverted in phase on the voltage drop due to proportional resistor.  
**CONSTITUTION:**An inverting amplifier 2 inverts the phase, amplifies and outputs the ripple components produced at the power supply terminal B1 due to the internal impedance  $Z_0$  of a DC power source 1 and the load variation in the DC motor M. This output voltage is supplied through an AC coupling capacitor C1 to the terminal J1 of a proportional resistor RT. An operational amplifier OP controls transistors Q1, Q2 in response to the deviation between the potential difference between the terminal J1 and J2 varying in response to the variation in the load of the DC motor and a reference voltage. In this manner, the ripple voltage capable of being produced on power supply terminal B1 can be sufficiently suppressed.

